



## Monthly Progress Report

January 2005

**PacifiCorp  
3<sup>rd</sup> West Substation  
LA Remediation Project**

### **Soil Remediation Phase**

**Start Date:** 08/31/04

**End Date:** Pending

### **Tasks Performed:**

Champion finished the excavation and air mover operations inside the capacitor yard and cleanup of the crawlspace under the control house. Cleaning methods used to achieve clearance inside the crawlspace were vacuuming (air mover) of all surfaces including soil (to hard pack), wet wiping, and encapsulation of all surfaces except the soil. They started remediation activities in the switchyard on January 11, 2005.

After visual inspection of the crawlspace and capacitor yard, R & R collected two micro-vac \*TEM samples and one five point composite soil sample from the crawlspace on January 12, 2005. The samples were sent to Reservoirs Environmental Services, Inc. (RESI) for rush (next day) analysis. EPA and CDM will use R & R's data for clearance because confined space training is limited amongst CDM personnel. R & R also collected three five-point composite samples in the capacitor yard and submitted them to RESI for \*PLM analysis in the capacitor yard. These samples are for pre-confirmation, prior to clearance sampling by CDM. R & R's sample collection protocol followed the Response Action Sampling and Analysis Plan (RASAP) Appendix A-Part 1: Section 3, Subsections 3.1-3.1.1, Section 4: Subsections 4.1-4.7, Part 2-Section 6: Subsections 6.1-6.10, and Appendix A-1, designed for this project. \*ASTM guidelines were also followed for the micro-vac sampling. RESI reported results as None Detected to Trace. The micro-vac samples reported as None Detected and 1<sup>s</sup>/254<sup>m2</sup> (LA).

CDM arrived on site January 13, 2005 to collect clearance samples in the capacitor yard. RESI reported the results as Trace on January 14, 2005.

**\*Transmission Electron Microscopy**

**\*Polarized Light Microscopy**

**\*American Standard for Testing and Materials (D 5755-95)**

Rain and "clay like" soil inside the switchyard have hampered hand excavation and air mover operations due to clogging of vacuum hoses.

Perimeter sampling continues to occur during work activity. Results have shown that engineering controls and work practices are effective during the remediation process to avoid airborne fiber concentrations. 477 perimeter samples have been collected and analyzed by \*TEM as of January 31, 2005.

R & R established a Negative Exposure Assessment as allowed in OSHA CFR 1926.1101 and will forego all OSHA sampling for the remainder of this project. 85 breathing zone samples were collected and analyzed by \*PCM to establish this assessment.

#### **\* Phase Contrast Microscopy**

Champion relocated the decontamination unit and reduced the boundaries of the exclusion zone. R & R re-established perimeter air monitoring locations near the exterior boundaries of the reduced exclusion zone to monitor for airborne fiber release.

Ken Duncan remains on site as PacifiCorp's electrical safety consultant for all electrical issues and questions that may arise.

PacifiCorp electricians and civil crews have entered the cleared areas inside the substation to perform maintenance activities to restore electrical ground grids, etc. before the back fill process begins.

Champion subcontracted with United Fence to install new fence on the North end of the designated work area (where the decon unit and frac tank were located). Excavation of the North corner (AMPCO Parking) where a vein of vermiculite contamination was found is now complete.

A. Gordon of CDM arrived on site on January 31, 2005 to collect clearance samples in the North corner (AMPCO Parking) area, due to spillage that occurred during the excavation of the vertical surface at the corner. He also collected a clearance sample on the East side of the control house inside the exclusion zone where the switchyard clean up is taking place.

#### **Planned Tasks for Next Month:**

Complete soil excavation in the switchyard, and have CDM collect clearances. Begin back fill and restoration process of the site and demobilize.

#### **Issues Addressed:**

PacifiCorp electricians supplied the decon trailer with power (feeding from the control house).

R & R continued collecting bulk samples of suspect and contaminated soil at various depths. Sample locations are being placed on the site drawings and the samples are being archived.

Analysis of samples collected in the switchyard showed results of trace for vermiculite (LA) contamination. Excavated depths will not exceed 18" in the switchyard. Analysis of soil samples in the control house crawlspace were None Detected.

Champion will notify Bush & Gudgell, Inc. and ask them to return and relocate the rivet that was set to establish an elevation (Bench Mark) reference point.

R & R's CAD person will update drawings of the site survey to show exact location of protective barriers and additional corrections requested by David Wilson.

**Schedule Summary:**

Champion projected dates for the completion and restoration of the site to be March 15, 2005.